

TECHNICAL PRODUCT SHEET

NAUTILUS HEAVY XT SAE 50



DESCRIPTION

NAUTILUS HEAVY XT is a premium quality, highly alkaline cylinder oil, designed for low-speed crosshead engines running on high sulfur heavy fuel oils (HSHFO). It is specifically blended with very high quality hydrotreated base stocks and advanced additive technology. It protects engines subject to cold corrosion by providing excellent ring wear protection, liner surface corrosion protection, elevated levels of engine cleanliness and, as a result, facilitates the prolongation of the engine's life cycle.

APPLICATIONS

NAUTILUS HEAVY XT is suitable for the cylinder lubrication of large, super long stroke, low-speed marine diesel engines running on residual medium and heavy fuels with sulfur content >1.5% and operating under conditions of slow steaming (i.e. high stress, long strokes, low loads), in particular. NAUTILUS HEAVY XT is intended to battle cold corrosion effects and is suitable for 2011 Tier II powertrains and/or for vessels fitted with exhaust gas after-treatment systems, so it should be used in accordance with OEM recommendations. NAUTILUS HEAVY XT meets the requirements of MAN Energy Solutions and WinGD.

SPECIFICATIONS

Everllence ES (NOL)
Mitsubishi

WinGD (NOL)

PROPERTIES

NAUTILUS HEAVY XT delivers outstanding neutralization of acids formed during fuel combustion, ensuring reliable protection in severe operating conditions. Its exceptional detergent properties safeguard the oil system from contamination in the event of accidental combustion-residue leakage. With enhanced boundary lubrication that protects against wear, along with excellent thermal and oxidation stability, NAUTILUS HEAVY XT provides robust performance and long-lasting protection for demanding marine engine applications.

BENEFITS

NAUTILUS HEAVY XT minimizes corrosive wear, supporting longer engine life and reduced maintenance costs. It delivers exceptional engine cleanliness with minimal deposits on the piston, piston rings, ring grooves and cylinder ports. By preventing scuffing and reducing liner and ring wear, it enables extended intervals between overhauls. With excellent deposit control that supports operation at optimized feed rates, NAUTILUS HEAVY XT ensures reliable performance in demanding marine engine conditions.



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PHYSICAL-CHEMICAL CHARACTERISTICS

NAUTILUS	METHOD	HEAVY XT
SAE Grade		50
Density at 15°C, g/cm ³	ASTM D4052	0.935
Viscosity, Kinematic (cSt) 40°C	ASTM D445	221.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	20.0
Viscosity index	ASTM D2270	104
Flash point, COC, °C	ASTM D92	248
Pour point, °C	ASTM D97	-15
TBN, mgKOH/g	ASTM D2896	100

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

